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OM nucleic - nucleic search, using sw model  
Run on: June 17, 2003, 16:25:00 ; Search time 145.866 Seconds  
(without alignments)  
10334.327 Million cell updates/sec

Title: US-09-807-933b-12  
Perfect score: 1041  
Sequence: 1 atgaagtctccatcatcg.....ctggttgagcgcaagtaa 1041

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:

- 1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq:
- 2: /cgn2\_6/ptodata/1/pubpna/PCT\_NEW\_PUB.seq:
- 3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:
- 4: /cgn2\_6/ptodata/1/pubpna/US06\_PUBCOMB.seq:
- 5: /cgn2\_6/ptodata/1/pubpna/US07\_NEW\_PUB.seq:
- 6: /cgn2\_6/ptodata/1/pubpna/PCTUS\_PUBCOMB.seq:
- 7: /cgn2\_6/ptodata/1/pubpna/US08\_NEW\_PUB.seq:
- 8: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq:
- 9: /cgn2\_6/ptodata/1/pubpna/US09\_NEW\_PUB.seq:
- 10: /cgn2\_6/ptodata/1/pubpna/US09\_PUBCOMB.seq:
- 11: /cgn2\_6/ptodata/1/pubpna/US10\_NEW\_PUB.seq:
- 12: /cgn2\_6/ptodata/1/pubpna/US10\_PUBCOMB.seq:
- 13: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:
- 14: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	236.6	22.7	1423	9	US-10-007-521-9
2	235.2	22.6	1473	10	US-09-735-787-3
3	233.2	22.4	960	9	US-10-007-521-1
4	231.8	22.3	927	9	US-10-007-521-5
5	230.4	22.1	894	9	US-10-007-521-3
6	228	21.9	1174	9	US-10-007-521-11
7	217.2	20.9	1060	10	US-09-735-787-1
8	216.6	20.8	1261	9	US-09-261-329-23
9	213.6	20.5	1132	9	US-10-007-521-21
10	208	20.0	1154	9	US-10-007-521-7
11	207.4	19.9	913	9	US-10-007-521-13
12	205.6	19.8	885	9	US-10-007-521-23
13	158.4	15.2	808	9	US-10-007-521-15
14	157.6	15.1	1031	9	US-10-007-521-19
15	157.6	15.1	1048	9	US-10-007-521-17
16	138	13.3	425	9	US-10-007-521-25
17	132	12.7	936	7	US-08-841-636A-30
18	121	11.6	446	10	US-09-864-761-20699
19	119.8	11.5	1635	10	US-09-864-761-20241

20	119.8	11.5	1973	10	US-09-864-761-3471	Sequence 3471, Ap
21	115	11.3	1075	10	US-09-864-761-19241	Sequence 19241, A
22	115	11.3	1403	10	US-09-864-761-2513	Sequence 2513, Ap
23	104.8	10.1	401	10	US-09-864-761-3936	Sequence 3936, Ap
24	104	10.0	476	10	US-09-864-761-6	Sequence 6, Appli
25	103.2	9.9	155074	9	US-10-026-188-6	Sequence 6, Appli
26	102	9.8	830	10	US-09-864-761-19531	Sequence 19531, A
27	98.4	9.5	887	10	US-09-864-761-21484	Sequence 21484, A
28	98.4	9.5	1981	10	US-09-864-761-4745	Sequence 4745, Ap
29	98	9.4	479	10	US-09-864-761-768	Sequence 768, App
30	94.4	9.1	249	10	US-09-864-761-16846	Sequence 16846, A
31	93.6	9.0	470	10	US-09-864-761-3121	Sequence 3121, Ap
32	92.6	8.9	331	10	US-09-864-761-17053	Sequence 17053, A
33	92.6	8.9	465	10	US-09-864-761-230	Sequence 230, App
34	91.4	8.6	276	10	US-09-864-761-25120	Sequence 25120, A
35	91.4	8.6	537	10	US-09-864-761-8390	Sequence 8390, Ap
36	91.4	8.6	3015	9	US-09-373-658-37	Sequence 37, Appl
37	90.4	8.7	522	10	US-09-864-761-19900	Sequence 19900, A
38	88.4	8.5	493	10	US-09-864-761-5863	Sequence 5863, Ap
39	86.6	8.3	454	10	US-09-864-761-4149	Sequence 4149, Ap
40	86.2	8.3	574	10	US-09-864-761-228	Sequence 228, App
41	86.2	8.3	669	10	US-09-864-761-17051	Sequence 17051, A
42	84.8	8.1	253	10	US-09-864-761-20903	Sequence 20903, A
43	83.4	8.0	456	10	US-09-864-761-4249	Sequence 4249, Ap
44	82.4	7.9	350	10	US-09-864-761-23424	Sequence 23424, A
45	82.4	7.9	600	10	US-09-864-761-6690	Sequence 6690, Ap

ALIGNMENTS

RESULT 1

US-10-007-521-9  
; Sequence 9, Application US/10007521  
; Publication No. US20030054539A1

; GENERAL INFORMATION:

; APPLICANT: Schulein, Martin

; Andersen, Lene N.

; Kauppinen, Soren F.

; Lange, Lene

; Nielsen, Ruby I.

; Ihara, Michiko

; Takagi, Shinobu

; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases

; NUMBER OF SEQUENCES: 109

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: No. US20030054539A1o No. US20030054539Aldisk of No. US20030054

; STREET: 405 Lexington Avenue, 64th Floor

; CITY: New York

; STATE: New York

; COUNTRY: United States of America

; ZIP: 10174-6401

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; FILING DATE: 10-Dec-2001

; CLASSIFICATION: <Unknown>

; APPLICATION NUMBER: US/10/007,521

; PRIORITY INFORMATION DATA:

; APPLICATION NUMBER: US/08/651,136

; FILING DATE: 21-MAY-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: Lambitis, Elias J.

; REGISTRATION NUMBER: 33,728

; REFERENCE/DOCKET NUMBER: 4366.200-US

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 212-867-0123

; TELEFAX: 212-878-9655

; INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:  
LENGTH: 1423 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 110..1156  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-10-007-521-9

Query Match 22.7%; Score 236.6; DB 9; Length 1423;  
Best Local Similarity 62.7%; Pred No. 1.1e-55;  
Matches 387; Conservative 0; Mismatches 224; Indels 6; Gaps 1;

418 GGCTTCTCTGGAAACGGTCCGCACTACCGCTACTGGGATTGTCGAAGCCCTCTTGGGCC 477  
167 GCCGCTCGGGCAAGGCCACACCCGCTACTGGGATTGTCGAAGACTTCTTGGCCA 226  
478 TGGGAGGGAAGGCTTCTGTAAGAGCTGTACTCACCTGTGCCAAGGATGGTGTACG 537  
227 TGGGAGGGCAAGCATCCGCTCTCCGAGCTGTCTGACCTGTAAACAGGAGCAACCCC 286  
538 CGTCTCGGTTCCGATGTCCAGAGCGGTTCGTCGGCGCGCAGGCTCATATGTCATGAC 597  
287 ATCGTCGATGCCAACGCCAGAACGGCTGCGACGGCGGGGGGCATTTGCCCTGTACCAAC 346  
598 AACGAGCCCTGGGTTGTCAATGAGGACCTTGCCCTACGCTTTCGCTGCTCCAGTCTCGGT 657  
347 AATTCCCTCTGGGCGGTGAGCGAGGACCTGGCCTACGGATTTGCTGCCACAGCCCTCAG 406  
658 AGCCCGCGTGCTCTGCAATTTGCTGCGGCTGTTAAGAGCTTACCTTACCAACACTGCT 717  
407 GCGGCACTGAGGCGAGCTGTGTCTGGCGGTGTTACGCCATCATTTACGAGTGGCCCT 466  
718 GTGCGTGGCAAGATTTGTGCTCCAGGTACCAACACCGGTGATGATCTTCAGCACCAAC 777  
467 GTGCGTGGCAAGAGATGGTTCGTCGTCACGAAACGGGAGGCGACCTGTCCAAACAC 526  
778 CACTTTGATTTGCAGATGCCCGGCGGTGGTTCGGCTATTCAACGGCTCCAGTCCGAG 837  
527 CACTTTGACCTGATGATTCCCGGTGGAGCCCTCGGCATCTTTGACGGTTCGTCGGCTCAG 586  
838 TGGAAACAACACCGATGCGCTGGGTGCTCGCTATGCGGTATTAGCTCTATTTCAGAG 897  
587 T-----TCGGACAATCTTCTCCCGGCGAGGCTTACGGAGGTGTTCTCCGCTCTCAA 640  
898 TCGCAACAAGCTTCTTACCCAGTTGCAAGCTGGTTCGCAAGTGGAGATTTCGATGTTCAAG 957  
641 TCGGATGGCATGCCCGAGCTCTTTGAAGAAGCGTTGCCAGTGGCGGTTCGACTGGTTCAG 700  
958 AACGCTGCAACCCAGAGGTACCTTCAAGGCTGTACTTGCCTCGCGAGATCATTTGCC 1017  
701 AACTCAGACAACCCCTGACATCGAGTTCGAGCAGGTCCTGATGTCCTCCAAAGAGCTCATTCG 760  
1018 AAGACTGTTGGGAGCG 1034  
761 GTCTCTGGGTGGTCCG 777

RESULT 2  
US-09-735-787-3  
Sequence 3, Application US/09735787  
Patent No. US20010036910A1  
GENERAL INFORMATION:  
APPLICANT: Rasmussen, Grethe  
Mikkelsen, Jan Moller  
Schulein, Martin  
Patzkar, Shankant A.  
Hagen, Fred

Hagen, Fred  
TITLE OF INVENTION: A Cellulase Preparation Comprising an  
Endoglucanase Enzyme



Wed Jun 18 17:55:12 2003

CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 927 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..924  
SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
US-10-007-521-5  
Query Match 22.3%; Score 231.8; DB 9; Length 927;  
Best Local Similarity 62.0%; Pred. No. 2e-54;  
Matches 384; Conservative 0; Mismatches 232; Indels 3; Gaps 1;  
QY 422 TCTCTGGAACGGTCCGACTACCGCTACTGGGATGTCGCAAGCCCTTTCGCGCTGGG 481  
DB 59 TCTCGGGATCGGCAGACGACCCGGTACTGGGACTGCTGCAAGCCGAGCTGCGCTTGGC 118  
QY 482 ACGGAAGG---CTTCTGTAACTAGCCTGTACTCACCCTGTGTCGCAAGGATGGTGTACGCC 538  
DB 119 CCGGAAGGGCCCTCGTCTCGGTGTCAGGCTGCGACAAAGACGACACCCGCTCAACG 178  
QY 539 GTCTCGGTTCCGATGTCAGAGCGGTTGCTGCGCGCGCCAGCCCTACATGTGCAATGACA 598  
DB 179 ACGGCGGCTCCACCCGGTCCGGCTCGACGCGGGCGGAGCGCCTACATGTGCTCCTCCC 238  
QY 599 ACCAGCCTGGGTTGTCATGACGACCTTGCTAGCGTTTTCGCTGCTCCAGTCTCGGTA 658  
DB 239 AGAGCCCTTGGGCGCTGACGACGAGCTGTCTGACGCTGGGCGGCTCAAGCTGCGCG 298  
QY 659 GCGCGGCTGCTCTGCAATCTGCTCGGCTGTACAGCTTACCTTCAACCAACTGTGTG 718  
DB 299 GCAGTCCGAGTCGAGTGGTGTGCTGCGCTGTACGAGCTGACCTTACACGCGGCGCG 358  
QY 719 TCGTGGCAAGAGTTGTCGTCAGGTCACCAACACCGGTGATGATCTCAGACCAACC 778  
DB 359 TCGCGGCAAGAGATGATGTGTCAGGCGACCAACCGGTGCGACCTTGGCGGCAACC 418  
QY 779 ACTTTGATTTGAGATGCGCGGCTGTGTGCGCTTCTTCAACCGGTGCCAGTCCAGT 838  
DB 419 ACTTTGACCTGGCCATCCCGGTGGGCTGCGGTATTTTCAACGCTGCGACCGACCACT 478  
QY 839 GGAACACCAACCGATGGCTGGGCTGCTGCTATGCGGCTATTAGCTTATTTTCAGAGT 898  
DB 479 ACGGCGCTCCCGCAACCGGTGGGCGACCGCTTACGCGGCGATCCATTCCAAGGAGAGT 538  
QY 899 GCACACAGCTTCCTACCCAGTTGCAAGTGGTGTGCAAGTGGAGATTTCGATGTTCAAGA 958

DB 539 GCGAATCCTTCCCGAGGCCCTCAAGCCGCTCAAACTGGCGTTCAGCTGGTCCAAA 598  
QY 959 ACGCTGACAAACCCAGAGGTACCTTCAAGGCTGTACTTGGCTCCCGGAGATCATTTGCCA 1018  
DB 599 ACGCGCAACACCCGTCGCTGCTTCCAGGAGTGGCTGCGCCGTCGAGCTCAGTCCA 658  
QY 1019 AGACTGTTGCGAGCGCAA 1037  
DB 659 AGAGCGGCTGCTCCCGTAA 677  
RESULT 5  
US-10-007-521-3  
Sequence 3, Application US/10007521  
Publication No. US20030054539A1  
GENERAL INFORMATION:  
APPLICANT: Schulein, Martin  
Andersen, Lene N.  
Lassen, Soren F.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 894 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..891  
SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
US-10-007-521-3  
Query Match 22.1%; Score 230.4; DB 9; Length 894;  
Best Local Similarity 62.0%; Pred. No. 4.9e-54;  
Matches 382; Conservative 0; Mismatches 231; Indels 3; Gaps 1;  
QY 422 TCTCTGGAACGGTCCGACTACCGCTACTGGGATGTCGCAAGCCCTTTCGCGCTGGG 481  
DB 59 TCTCGGGATCGGCAGACGACCCGGTACTGGGACTGCTGCAAGCCGAGCTGCGCTGGC 118









RESULT 10  
US-10-007-521-7  
; Sequence 7, Application US/10007521  
; Publication No. US20030054539A1  
; GENERAL INFORMATION:  
; APPLICANT: Schulein, Martin  
; Andersen, Lene N.  
; Lassen, Soren F.  
; Kauppinen, Markus S.  
; Lange, Lene  
; Nielsen, Ruby I.  
; Ihara, Michiko  
; Takagi, Shinobu  
; TITLE OF INVENTION: No. US20030054539A1el Endoglycanases  
; NUMBER OF SEQUENCES: 109  
; CORRESPONDENCE ADDRESSES:  
; ADDRESSEE: NO. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
; STREET: 405 Lexington Avenue, 64th Floor  
; CITY: New York  
; STATE: New York  
; COUNTRY: United States of America  
; ZIP: 10174-6401  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/007,521  
; FILING DATE: 10-Dec-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/651,136  
; FILING DATE: 21-MAY-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lambiris, Elias J.  
; REGISTRATION NUMBER: 33,728  
; REFERENCE/DOCKET NUMBER: 4366,200-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-867-0123  
; TELEFAX: 212-878-9655  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1154 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cdna  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 51..935  
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
US-10-007-521-7

Query Match 20.0%; Score 208; DB 9; Length 1154;  
Best Local Similarity 59.4%; Pred. No. 8.3e-48;  
Matches 374; Conservative 0; Mismatches 250; Indels 6; Gaps 1;  
QY 408 CATTTCTGGTGGCTTCTCTGGAAACGGTGGCACTACCGCTACTGGGATTGTGCAAGCC 467  
DB 89 CGTGGCTGTCTAGAGCTCTGGCTCTGGCCATACAAACAGGTACTGGGACTGTGCTCAAGCC 148  
QY 468 CTCCTGGCGCTGGGACGGAAAGCGTTCTGTAACTAAGCCTGTACTCACCTGTGCCAAGGA 527  
DB 149 CTCATGGCCCTGGGATAGAAAGCGGCTGTACGCGCGCGGTGCACAACTGGACAGGA 208  
QY 528 TGGTGTTCAGCGCTCTCGTGGTCCGATGCCAGAGCGGTTGCGTCGGCGGCGAGCCCTACAT 587  
DB 209 CAACAGCGCCCTTTCGCGCGCGCGCTGTGAGCGGCTGGACCCCAACGGCGCTTGCATTAC 268  
QY 588 GTGCAATGACAAACAGCGCTGGGTTGTCAATGACGACCTTGCCTACGCTTTCGCTGCTGC 647

Db	269	CTGCAACGACAACAGCGCTTGGCGGTAAACAACAATGTGCGCTTACGGTTTGGCGGTAC	328
Qy	648	CAGTCTGGTAGCGCGGTGCTCTGCAATCTGCTGGGCTGTGTACGAGCTTACCTTCAAC	707
Db	329	CGCCTTCCCTGCTGGCAATGAGGCGTCTGTGGTGTGTGCTGCTATGCTCTTCAATTCAAC	388
Qy	708	CAACACTGTGTGCTGGCGCAAGATTTGTGCTCAGGTCAACACCGGTGATGATCT	767
Db	389	ATCCGGCCCCGTGTGTCGCAACAGCATGTTGTGCAATCCACCAACACTGGCGGAGATCT	448
Qy	768	CAGCACCAACACTTTGATTTTCAGATGCGCGGCTGTGTGCGCTACTTCAACCGGCTG	827
Db	449	CAGCGGCACCTCACTTCGATATCCAGATGCCCGTGGAGGTCTCGGCATCTTTCGACGGCTG	508
Qy	828	CCAGTCCCAGTGGAAACACCAACACCGATGGCTGGGGTGTCTGCTATGGCGTATTAGCTC	887
Db	509	CACCCCGAGTTCGGCTTTCAGGTTCCCGGC-----AACCGCTACGGCGGTACCAACGAG	562
Qy	888	TATTTCAGAGTGGCAACAGCTTCTTACCCAGTTGAGGCTGTGTGCAAGTGGAGATTTCG	947
Db	563	CCGAGCCAGTGGCGCGAGCTGCCCTCCGTCTCCGTGACGCTGCCATGCGCTTACCA	622
Qy	948	ATGTTTCAAGAACGCTGACAACCCAGAGGTCACTTTCAAGGCTGTTCCTTGGCCTGCCGA	1007
Db	623	CTGTTTCAACGATGCCGACACCCCAACGCTCAACTGGCGCGGCTCCGATGCCCGCGCG	682
Qy	1008	GATCATTGCCAAGACTGTTGGCAGCGCAA	1037
Db	683	CCTCAGAACCGCTCCGGCTCGCTCCGCAA	712

RESULT 11  
US-10-007-521-13  
; Sequence 13, Application US/10007521  
; Publication No. US20030054539A1  
; GENERAL INFORMATION:  
APPLICANT: Schuelein, Martin  
Andersen, Lene N.  
Lassen, Soren P.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-6401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:  
LENGTH: 913 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:

NAME/KEY: CDS  
LOCATION: 41..706  
SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
US-10-007-521-13

Query Match 19.9%; Score 207.4; DB 9; Length 913;  
Best Local Similarity 61.0%; Pred. No. 1.1e-47;  
Matches 375; Conservative 0; Mismatches 231; Indels 9; Gaps 2;

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QY 430 AACGGTCGCACTACCGCTACTGGGATTGCTGAAGCCCTCTTGGCGCTGGGACGAAAG 489
DB 101 AGCGCGGTGACAAACAGGTACTGGGACTGCTGAAGCCGCTTTGTGCTGGACGGGCMAA 160
QY 490 GCTTCTGTACTAAGCCTGTACTCACCTGTGCCAAGGATGGTGTCAAGCGTCTCGGTTC 549
DB 161 GCATCGCTCTCAAGCCGCTGGAACCTGCAATCAACGACGCGCCAGACGCCGAGC 220
QY 550 GATG---TCCAGAGCGGTTCGTCGGCGGCCAGCCCTACATGTGCAATGACAAACCAAGCCC 606
DB 221 GATCTGCTCAAGTCGCTCTGTGATGGCGGCAGCGCCTACTACTGCAGCAACCAAGGCCCA 280
QY 607 TGGGTTGTCAATCAAGACCTTGCCTAGGTTTCGCTGCTGCCAGTCTCGGTAGGCGGCT 666
DB 281 TGGGCGCGTGACACAGCCCTTCTTACGGCTTCGCTGCCCAAGCTGTCCGGAAGCAG 340
QY 667 GCCTCTGCACTTCTGTCGCGCTGTTACGAGCTTACCTTACCAACACTGCTGTGCTGGC 726
DB 341 GAGACTGATTGGTGTGCTGCTGCTACAGCTCACATTCACCTCCACCGCCGTTTCGGC 400
QY 727 AAGAAGTTTGTCTCCAGGTCACCAACACCGGTGATGATCTCAGCAACCAACCACTTTGAT 786
DB 401 AAGCAATGATGTCGAATCAGCAACACGCGCGGACCTCGGCAACCACTTCGAC 460
QY 787 TTGAGATGCCGCGGTGTGTGCTGCTACTTCAAGCGTGGCCAGTCCGAGTGGAGCAACC 846
DB 461 ATCGCCATGCGCGCGCGCGCTCGGCATCTTCAACGGGTGCTTCAAGCAATGGAACGGC 520
QY 847 AACACCGATGGCTGGGCTGCTGCTATGGCGGTATTAGCTCTATTTCAGAGTGGCAAG 906
DB 521 ATCA-----ATCTGGCAACACAGTATGGCGGCTTCACTACCGCTCGCAATGGGACG 574
QY 907 CTTCTCTACCCAGTTGCAAGGCTGGTTGCAAGTGAGAGATTGCGATGGTTCAAGAACGCTGAC 966
DB 575 CTCCGCTTCAAGTGGCAGGCGAGCTGCAACTGGCGCTTCGACTGGTTTCGAGATGCCGAC 634
QY 967 AACCCAGAGTCACTTCAAGGCTGTACTTGGCCCTGCCGAGATCATTTGCAAGACTGGT 1026
DB 635 AACCCCAACCGTCAATTGGGAGCGCTGCTACTTGGCCCAAGGAATTTGGTCGCCGACTGGC 694
QY 1027 TGCAGCGCAAGTAA 1041
DB 695 TGTTCCGTTACCTAA 709
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## RESULT 12

US-10-007-521-23  
; Publication 23, Application US/10007521  
; Publication No. US20030054539A1

## ; GENERAL INFORMATION:

APPLICANT: Schulein, Martin  
; Andersen, Lene N.  
; Lassen, Soren F.  
; Kauppinen, Markus S.  
; Lange, Lene  
; Nielsen, Ruby I.  
; Ihara, Michiko

; Takagi, Shinobu  
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanase  
; NUMBER OF SEQUENCES: 109  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: No. US20030054539A1o No. US20030054539A1disk of No. US20030054  
; STREET: 405 Lexington Avenue, 64th Floor  
; CITY: New York  
; STATE: New York  
; COUNTRY: United States of America  
; ZIP: 10174-6401  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/007,521  
; FILING DATE: 10-Dec-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/651,136  
; FILING DATE: 21-MAY-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lambiris, Elias J.  
; REGISTRATION NUMBER: 33,728  
; REFERENCE/DOCKET NUMBER: 4366.200-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-867-0123  
; TELEFAX: 212-878-9655  
; INFORMATION FOR SEQ ID NO: 23:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 885 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 1..882  
; SEQUENCE DESCRIPTION: SEQ ID NO: 23:  
; US-10-007-521-23

Query Match 19.8%; Score 205.6; DB 9; Length 885;  
Best Local Similarity 61.3%; Pred. No. 3.5e-47;  
Matches 369; Conservative 0; Mismatches 224; Indels 9; Gaps 2;

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QY 430 AACGGTCGCACTACCGCTACTGGGATTGCTGAAGCCCTCTTGGCGCTGGGACGAAAG 489
DB 61 AGCGCGGTGACAAACAGGTACTGGGACTGCTGAAGCCGCTTTGTGCTGGACGGGCMAA 120
QY 490 GCTTCTGTAACTAAGCCTGTACTCACCTGTGCCAAGGATGGTGTCAAGCGTCTCGGTTC 549
DB 121 GCATCGCTTCCAAAGCCGCTCGGAACCTCGCACTCAACGCAACCAAGCCGAGC 180
QY 550 GATG---TCCAGAGCGGTTCGCTGCGCGGCCAGCCCTACATGTGCAATGACAAACCAAGCCC 606
DB 181 GATCTGCTCAAGTCGCTGCTGATGGCGGCGAGCGCTACTACTGCAGCAACCAAGGCCCA 240
QY 607 TGGGTTGTCAATGACGACCTTGGCTAGCGGTTTCGCTGCTGCGAGTCTCGGTAGCGCGGT 666
DB 241 TGGGCGGTGAACGACAGCCCTTCTTACCGGCTTCGCTGCCCGCAAGCTGTCCGGAAGCAG 300
QY 667 GCCTCTGCACTTCTGCTGCGCGCTGTTACGAGCTTACCTTCACCAACCACTGCTGCTGGC 726
DB 301 GAGACTGATTGGTGTGCTGCTGCTGCTACAGCTCACATTCACCTCCACCGCGCTTCGCGC 360
QY 727 AAGAAGTTTGTCTGCCAGGTTCACCAACGCGGTGATGATCTCAGCAACCAACCACTTTGAT 786
DB 361 AAGCAATGATCGTGCAATACGAAACACGCGCGGCGGAGCTTCGGCAACCAACCACTTCGAC 420
QY 787 TTGAGATGCCGCGCGGTGGTGTGCTGCTACTTCAACGCGGTGCGAGTCCGAGTGGAAACACC 846
DB 421 ATCGCCATGCGCGCGCGGTGCGGCATCTTCAACGGGTGCTTCCAAAGGATGGAACGGC 480
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Best Local Similarity 55.1%; Pred. No. 4e-34;  
Matches 332; Conservative 0; Mismatches 268; Indels 3; Gaps 1;

QY 847 AACACGATGGCTGGGCTGCTATGCGGTATTAGCTCTATTTCAGAGTGGACAAG 906  
Db 481 ATCA-----ATCTGGCAACCATGATGGGCTTCACTGACCGCTCGCAATGTGGACG 534  
QY 907 CTTCTACCCAGTTGAGGCTGGTTCAGAGTGGATTCGATGTTCAAGAACGCTGAC 966  
Db 535 CTCCGTCCAAGTGGCAGGCGAGCTGCACTGGCGCTTCGACTGGTTGAGAAATGCCGAC 594  
QY 967 AACCCAGAGTCACTTCAAGGCTGTTACTTGGCTGCGGAGATCAITGCCAAGACTGTT 1026  
Db 595 AACCCACCGTCGATTGGGAGCGCTGCTCACTTGCCCAACAGAAATGTTGCTGCCCGGACTGGC 654  
QY 1027 TG 1028  
Db 655 TG 656

RESULT 13

US-10-007-521-15  
; Sequence 15, Application US/10007521  
; Publication No. US20030054539A1  
; GENERAL INFORMATION:  
; APPLICANT: Schuelein, Martin  
; Andersen, Lene N.  
; Lassen, Soren F.  
; Kauppinen, Markus S.  
; Lange, Lene  
; Nielsen, Ruby I.  
; Ihara, Michiko  
; Takagi, Shinobu  
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
; NUMBER OF SEQUENCES: 109  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
; STREET: 405 Lexington Avenue, 64th Floor  
; CITY: New York  
; STATE: New York  
; COUNTRY: United States of America  
; ZIP: 10174-6401  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/10/007,521  
; FILING DATE: 10-Dec-2001  
; CLASSIFICATION: <Unknown>  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US/08/651,136  
; FILING DATE: 21-MAY-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Lambiris, Elias J.  
; REGISTRATION NUMBER: 33,728  
; REFERENCE/DOCKET NUMBER: 4366.200-US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 212-867-0123  
; TELEFAX: 212-878-9655  
; INFORMATION FOR SEQ ID NO: 15:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 808 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 37..714  
; SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-007-521-15

QY 439 ACTACCGCTACTGGGATTTGCTCGAAGCCCTCTTGGCCCTGGGACGGAAGGCTTCTGTA 498  
Db 118 ACACCGCTACTTGGGACTGCTGCAAGCCAAAGCTGTGGATGGAGTGGAAAGGCTTCTGTT 177  
QY 499 ACTAAGCCTCTACTCACTGTGCAAGGATGGTGTGAGCGGCTCTCGGTTCCGATGTCAG 558  
Db 178 TCTGCTCCAGTCAGACTTTCGATCGTAATGGAATATACACTTGGCCACAGACGTGAAGC 237  
QY 559 AGCGGTTGCGTGGCGCCAGGCTTACATGTGAATGACACAGCCCTGGGTTGTCAAT 618  
Db 238 GGATGTATAGCGGTGGAAGCTCATTCACCTTGGCGGAACAATGGTCCATTTGGATGAC 297  
QY 619 GACGACCTTGCCTACGCTTTCGCTGCTGCCAGTCTCGGTAGCGCGGCTCTTCGCAATC 678  
Db 298 AATAACACATGCATATGTTTTCGTCAGCCCACTTAGCGGCTCTAGCGAAGCAGCCTGG 357  
QY 679 TGCTCGGCTGTTACGAGCTTACCTTCAACAACTGCTGCTGCTGCGCAAGAGTTTGTG 738  
Db 358 TGTGGCAGTCTAGCAATTCAGCTTTACGAGTGGACCCGTTAGTTGGGAAGAACTGACC 417  
QY 739 GTCCAGGTCACCAACACCGGTGATCTCAGCACCAACCACTTTGATTTGCAGATGCC 798  
Db 418 GTTCAAGTCACAAACACGGGAGGTGACCTCGAATAATCACTTTGACCTGATGCC 477  
QY 799 GCGGTGCTGCGGCTACTTCAACGGGTGCGAGTCCCGAGTGGGAACACCAACACCGATGCC 858  
Db 478 GGTGGAGGTGTTGGCTCTTTCACACAGGATGTCCTGCTCAGTTGGGAGCTGGAACG-- 535  
QY 859 TGGGTGCTGCTATGGCGGTATTAGCTCTATTTTCAGAGTGGACCAAGCTTCTTACCCAG 918  
Db 536 -GGGCTGCTCAATACGCGGGGTGTTCAGCGGTGACCAATGCTCCCACTTCCAGCAGCT 594  
QY 919 TTTCAGGCTGTTGCAAGTGGAGATTCCGATGTTTCAAGAACGCTGACCAACCCAGAGTGC 978  
Db 595 GTGCAAGCTGGATGTCATTCGTTTCGACTGGATGGGTGGCGCGGATAACCCCAACGTC 654  
QY 979 ACCTTCAAGGCTGTTACTTGGCCCTGCGAGATCATTGCCAAGACTGTTTGGAGGCGCAAG 1038  
Db 655 ACCTTCCGACCTGTGACCTGCCGAGCAGCTCAATAATCTCGGCTGTGTTCTGTA 714  
QY 1039 TAA 1041  
Db 715 TGA 717

RESULT 14

US-10-007-521-19  
; Sequence 19, Application US/10007521  
; Publication No. US20030054539A1  
; GENERAL INFORMATION:  
; APPLICANT: Schuelein, Martin  
; Andersen, Lene N.  
; Lassen, Soren F.  
; Kauppinen, Markus S.  
; Lange, Lene  
; Nielsen, Ruby I.  
; Ihara, Michiko  
; Takagi, Shinobu  
; TITLE OF INVENTION: No. US20030054539A1el Endoglucanases  
; NUMBER OF SEQUENCES: 109  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: No. US20030054539A1o No. US20030054539A1disk of No. US20030054539A1  
; STREET: 405 Lexington Avenue, 64th Floor  
; CITY: New York  
; STATE: New York  
; COUNTRY: United States of America  
; ZIP: 10174-6401  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible

Query Match 15.2%; Score 158.4; DB 9; Length 808;

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1031 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 11..889  
SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
US-10-007-521-19

Query Match 15.1%; Score 157.6; DB 9; Length 1031;  
Best Local Similarity 55.1%; Pred. No. 7.1e-34;  
Matches 330; Conservative 0; Mismatches 266; Indels 3; Gaps 1;  
QY 439 ACTACCGCTACTGGGATTTGCTGCAAGCCCTCTTGGCCCTGGGACCGAAGGCTTCTGTA 498  
DB 77 ACAGCCCGTACTGGGACTGCTGCAAGCCAAGCTGGGATGGAGTGGAAAGGCTTCTGTT 136  
QY 499 ACTAAGCCTGTACTACCTGTGCGCAAGGATGGTGTGAGCGCTCTCGGTTCCGATGCCAG 558  
DB 137 TCTGCTCCAGTCAGACTTGGGATGCTGTAATGGAATACACTTGGCCCGACGCTGAAAGC 196  
QY 559 AGCGGTGGCTGGCGCGCAGGCTCATGTGCAATGCAACACAGCCCTGGGTTGTCAT 618  
DB 197 GGATGTGATAGCGGTGGAGCTCATTCACCTTGGCGCAACAATGGTCCATTTGGATTGAC 256  
QY 619 GACGACCTTGCCTACCGTTTGGCTGTGTCAGTCTCGGTAGCGCGGCTCTGCAATTC 678  
DB 257 AATAACACTGCATATGTTTGTGTCAGGCCCACTTAGCGGGCTCTAGCGAAGCAGCCTGG 316  
QY 679 TGTGCGGCTGTACGAGCTTACCTTACCAACACTGCTGTGCTGCGCAAGAGTTTGT 738  
DB 317 TGTGCGGCTGTACGAGTTAGCTTTACAGTGGACCGGTAGTGGGAGAACTGAC 376  
QY 739 GTCCAGGTACCAACACCGGTGATGATCTCAGCAACCAACACCTTTGATTTGCAGATGCC 798  
DB 377 GTTCAAGTCACAACACGGGAGTGACCTCGGAATAATACCTTTGACCTGATGATCC 436  
QY 799 GCGGTTGGTGTGGCTACTTCAACGGGTGCGCACTCCAGTGGGAACCAACACCGATGGC 858  
DB 437 GTGGAGGTGTGGGCTCTTACACAAGGATGCTCTGCTCAGTTTGGGAGCTGGAACG-- 494  
QY 859 TGGGTTGCTGCTATGCGGTATTTAGCTCTATTTCAGAGTGGCAAGCTTCTCACCAG 918  
DB 495 -GGGTTGCTCAATACGGGGTGTGTCCAGCGGTGACCAATGCTCCCACTTCAGAGCT 553  
QY 919 TTGAGGCTGGTTGCAAGTGGAGATTCCGATGGTTCAAGAACCGCTCAACACCGAGGTC 978  
DB 554 GTCAAGCTGGATGTCAATTCGCTTTCGACTGGATGGGTGGCGCGGATTAACCCCAAGTC 613  
QY 979 ACCTTCAAGCTGTTTACTTGGCCCTGCGGAGATCAATTTGCCAAGACTGCTGGCGAGCGCA 1037  
DB 614 ACCTTCGACCTGTGACCTGCCCGGCGAGCTCACTAATATCTCGGGCTGTGTTCTGTA 672

## RESULT 15

US-10-007-521-17  
Sequence 17, Application US/10007521  
Publication No. US20030054539A1  
GENERAL INFORMATION:  
APPLICANT: Schulein, Martin  
Lassen, Soren F.  
Kauppinen, Markus S.  
Lange, Lene  
Nielsen, Ruby I.  
Ihara, Michiko  
Takagi, Shinobu  
TITLE OF INVENTION: No. US20030054539A1e1 Endoglucanases  
NUMBER OF SEQUENCES: 109  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. US20030054539A1o No. US20030054539Aldisk of No. US20030054539A1  
STREET: 405 Lexington Avenue, 64th Floor  
CITY: New York  
STATE: New York  
COUNTRY: United States of America  
ZIP: 10174-8401  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/007,521  
FILING DATE: 10-Dec-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/651,136  
FILING DATE: 21-MAY-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Lambiris, Elias J.  
REGISTRATION NUMBER: 33,728  
REFERENCE/DOCKET NUMBER: 4366.200-US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-867-0123  
TELEFAX: 212-878-9655  
INFORMATION FOR SEQ ID NO: 17:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1048 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 13..906  
SEQUENCE DESCRIPTION: SEQ ID NO: 17:  
US-10-007-521-17

Query Match 15.1%; Score 157.6; DB 9; Length 1048;  
Best Local Similarity 55.1%; Pred. No. 7.1e-34;  
Matches 330; Conservative 0; Mismatches 266; Indels 3; Gaps 1;  
QY 439 ACTACCGCTACTGGGATTTGCTGCAAGCCCTCTTGGCCCTGGGACCGAAGGCTTCTGTA 498  
DB 94 ACAGCCCGTACTGGGACTGCTGCAAGCCAAGCTGGGATGGAGTGGAAAGGCTTCTGTT 153  
QY 499 ACTAAGCCTGTACTACCTGTGCGCAAGGATGGTGTGAGCGCTCTCGGTTCCGATGCCAG 558  
DB 154 TCTGCTCCAGTCAGAACTTTCGATCGTAATGGAATACACTTGGCCCGACGCGTGAAGC 213  
QY 559 AGCGGTGGCTGGCGCGCCAGCGCTACATGTGCAATGACAAACAGCCCTGGGTTGTCAT 618  
DB 214 GGATGTGATAGCGGTGGAAAGCTATTCATCTTGGCGGAACAAATGGTCCATTTGGATTGAC 273  
QY 619 GACGACCTTGCCTACCGTTTTCGCTGTGCTGCGAGTCTCGGTAGCGCGCGCTCTCGCATTC 678

Wed Jun 18 17:55:12 2003

Db 274 AATAACACTGCATATGGTTTGTGTCAGCCCACTTAGCGGGCTCTAGGAGACGACCTGG 333  
Qy 679 TGGTGGGGCTGTACGAGCTTACCTTCACCAACACTGTGTCGCTGGCAAGTATTGTC 738  
Db 334 TGTGGCAGTGTACCAATTGACGTTTACGAGTGGACCCGTAGTTGGGAAGAACTGACC 393  
Qy 739 GTCCAGGTCAACCAACCGGTGATCTCAGCACCACCACTTTGATTTGCAGATGCC 798  
Db 394 GTTCAGTCAACAACACGGGAGGTGACCTCGGAATAATCACTTTGACCTGATGCC 453  
Qy 799 GCGGTGGTGTGGCTACTTCAACGGTCCAGTCCCGAGTGGAAACACCAACCGATGCC 858  
Db 454 GGTGGAGGTGTGGCCCTCTTCACAAGGATGTCCTGCTCAGTTTGGGAGCTGGAACG-- 511  
Qy 859 TGGGTGCTCGCTATGGCGGTATTAGCTCTATTTCAGAGTGGCAAGCTTCTTACCCAG 918  
Db 512 -GGGTGCTCAATACGGGGGTGTGCCAGCGTGACCAATGCTCCCAACTTCCAGCAGCT 570  
Qy 919 TTGAGGCTGGTTGCAAGTGGAGATTCCGATGGTTCAAGAACGCTGACAACCCAGAGTTC 978  
Db 571 GTGCAAGCTGGATGTCAATTCCGTTTCGACTGGATGGGTGGCGGGATACCCCAACGTC 630  
Qy 979 ACCTTCAAGGCTGTACTTGGCCCTGCGGAGATCATTCGCCAAGACTGGTTGCGAGCGCAA 1037  
Db 631 ACCTTCGACCTGTGACCTGCCAGCGCAGCTCACTAATATCTCGGGCTGTGTTCTGTAA 689

Search completed: June 18, 2003, 01:59:18  
Job time : 147.866 secs